



National Aeronautics and Space Administration
Goddard Space Flight Center

Wallops Flight Facility, Wallops Island, Virginia

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Federal Agencies Join Forces to Measure Bonnie's Impact to NC Beaches

Properly assessing the impact of a hurricane is an enormous task. NASA, the United States Geological Survey (USGS) and the National Oceanic and Atmospheric Administration (NOAA) are combining efforts to provide public officials with the tools they need to accurately determine coastal change.

The goal of the joint project between NASA Wallops Flight Facility; NOAA's Coastal Services Center, Charleston, SC and the USGS Center

North Carolina and the northern beaches of South Carolina from Tuesday to Thursday (Sept. 1 to Sept. 3).

"Using technology developed by NASA Wallops Flight Facility to map polar ice caps, the laser can map in a week what would take months using traditional surveying methods," said Bill Krabill, NASA Project Scientist at Wallops.

"While this project is still in the experimental stage, scientists are seizing the opportunity Bonnie presents to help North Carolina officials document beach erosion and at the same time showcase and fine tune this exciting project. Laser beach mapping should prove to be the fastest and most economical way to determine shoreline change after a storm and on an annual basis," Krabill said.

NASA Celebrates 40 Years

On Oct. 1, NASA will celebrate 40 years of history. To mark the occasion, the Office of Policy and Plans has designed a web site and is producing new publications, a poster and a bumper sticker.



The NASA 40th Anniversary home page is online at: <http://www.hq.nasa.gov/office/pao/History/40thann/40home.htm>

The web page has a wealth of historic images, movies, and documents about NASA's formation and the early years.

The new print publications include:

"A Brief History of the National Aeronautics and Space Administration," August 1998. This 5-page fact sheet on the history of the Agency also is available online on the 40th Anniversary homepage.

Legislative Origins of the National Aeronautics and Space Act of 1958: Proceedings of an Oral History Workshop Conducted April 3, 1992.

This publication provides an oral history by key participants in the 1958 effort to write and pass legislation, known as "the Space Act", that established NASA and remains the core statement governing U.S. civil space exploration activities.

NASA Human Spaceflight, A Record of Achievement, 1961-1998, August 1998. This monograph updates and corrects an earlier publication that lists each mission flown by NASA with astronauts aboard since Alan Shepard's first flight in 1961.

NASA's Origins and the Dawn of the Space Age, September 1998. This document contains a short narrative about the launch of Sputnik 1 and 2, the American reaction and the decision making process that led up to the establishment of NASA on Oct. 1, 1958, as well as reprint facsimile documents from the Agency's early history.

For more information on publications and the NASA 40th Anniversary, call the History Office at NASA Headquarters (202) 358-0384.

Wallops Shorts.....

Fire Department

Fire personnel traveled to Hebron, MD with the NASA crash truck as a stand-by during military training maneuvers on Sept. 3 and 4.



USGS aerial photographs of a section of Wrightsville Beach, NC taken on July 16, 1996 following Hurricane Bertha (top) and Aug. 28, 1998 following Hurricane Bonnie (right).



for Coastal Geology, St. Petersburg, FL is to help state officials determine changes to North Carolina beaches following Hurricane Bonnie.

A NOAA Twin Otter aircraft equipped with a NASA laser topographic mapping instrument and Global Positioning System (GPS) receiver flew the shoreline affected by Hurricane Bonnie taking measurements to develop detailed maps of the beach. The data acquired from these flights will be compared to baseline data collected during a similar mission conducted in October 1997. Officials will then be able to determine changes which occurred to the beach during the past year.

The NOAA aircraft departed Wallops Sept. 1 to fly the coast of Virginia,

The mapping effort is being accomplished with the NASA Airborne Topographic Mapper (ATM) flown on the NOAA aircraft at an altitude of 1,800 ft. The laser collects 5,000 spot elevations per second as the aircraft travels over the coast at approximately 150 feet per second. Using the laser and GPS receiver, researchers are able to survey the beach elevations to an accuracy of four inches. USGS coastal geologists will be conducting ground surveys to verify data obtained with the laser.

Further information can be obtained at the following web sites: <http://aol.wff.nasa.gov/aoltm/projects/beachmap/>, <http://www.csc.noaa.gov/text/beach.html> and <http://walrus.wr.usgs.gov/docs/projects/scarol.html>

Women's Conference

There are STILL two slots available for the 1998 Conference for Women. The conference is scheduled for Sept. 23-24 at the Doubletree Club Hotel, Norfolk, VA.

Attendance is on a first come - first serve basis. Please submit training requests to Sherry Kleckner for Code 800 or Laura Potler for all other codes (FAX 66-1679). Training requests need to be in ASAP.

Ten Wallops women will be attending. There still is EO funding for training for two slots. Travel expenses must be picked up by individual Codes. Transportation can be by GOV. For additional information, contact Pat Pruitt, x1145.

Opening Session: **Communication Secrets of This Year's Most Influential Women**

Track 1: Career Development

Resolving Conflict and Anger
How to Deal with Difficult People
How to Gain the Respect and Credibility You Deserve
Thinking Outside the Lines

Track 2 Personal Development

Life Balance and Stress Reduction
Managing Multiple Priorities
Overcoming Job Burnout
Career Mapping

Track 3: Communication Skills

I Don't Know Anyone from Mars or Venus!
Sharpening Your Interpersonal Communication Skills
How to Communicate with Power and Influence
How to Be Assertive Without Being Pushy

Track 4: Networking

Utilities - Transportation
Construction - Manufacturing
Government - Healthcare - Finance
Telecommunications - Insurance
Wholesale - Retail - High-Tech
Real Estate - Computer Clubs - Non Profits - Education - Professional

Goddard Community Day **"Celebrating NASA's 40th Anniversary"**

To celebrate NASA's 40th Anniversary, Goddard will hold a Community Day, Sept. 27, from 9 a.m. to 4 p.m. at the Greenbelt Visitor Center.

Activities will include tours, space suit demonstrations, children's programs and activities, presentations, and model rocket launches.

For more information, check out the Visitor Center homepage: <http://pao.gsfc.nasa.gov/VC/VC.htm>

Upcoming Courses

GRAMMAR AND PUNCTUATION REVIEW

Dates: Sept. 28-30, 1998

Time: 9 a.m. - 4:30 p.m.

Location: Wallops Flight Facility

This workshop reviews basic rules of grammar and punctuation. It does not analyze all aspects of English usage; instead, it focuses on the most common troublesome problem areas (e.g., commas vs. semicolons, that vs. which, who vs. whom). Participants are, in part, responsible for determining course content by bringing samples of work-related documents to class. Those planning to take "Effective Writing," or who need to refresh their understanding of grammar and punctuation, should attend this course first.

To enroll, reserve your spot on the roster with Dr. Matt Jarvis by e-mail at: mjarvis@pop100.gsfc.nasa.gov, and submit a training request to your training coordinator. For further information contact Sherry Kleckner, x1204.

E. S. Blood Bank Dues

Be reminded that dues to the Eastern Shore Blood Bank are due and must be paid by Sept. 18. Dues are \$5. If you are 65 or older, your dues are \$2.

Dues may be paid by check or cash to Linda Layton, Bldg. E-105. Checks should be made payable to the Eastern Shore Blood Bank.



"Kareoke"

Sept. 18,
1998
6 - 10 p.m.
Bldg. F-3

Featuring:

New Millennium Entertainment
with
Greg Michaels and Tanya

There is NO CHARGE

For further information, contact Jan Neville, x1526.



Beach Clean-up **Sept. 19**

Volunteers are needed to do the annual clean-up on Wallops Island beach. The clean-up begins at approximately 9:30 a.m. and is generally finished by noon. Transportation will be provided from the Island gate to the beach and back.

Anyone interested in helping can sign up by calling the Public Affairs Office, x1579.

Early Retirement Authority Expires

NASA's voluntary early retirement authority expires Sept. 30, 1998. The early out authority permits eligible employees to retire at age 50 with 20 years of creditable Federal service or 25 years of creditable Federal service regardless of age. Many NASA centers, including Goddard, have been successful in their downsizing efforts. The Office of Personnel Management (OPM) has indicated it will not approve early retirement extensions for Centers whose downsizing is complete. Goddard's early out authority will NOT be extended past Sept. 30.

OPM has extended the voluntary early out authority through Sept. 30, 1999 for Kennedy Space Flight Center, Marshall Space Flight Center, Johnson Space Center and Code M at Headquarters.

Goddard employees hoping to take advantage of the opportunity to retire under the early retirement authority must be off the Center's rolls by Sept. 30, 1998. For further information contact Lisa Johnson, x1511.

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